





	Nucleotide		Protein	Genome		Structure		PMC	Taxonomy	OMIM	Books
Search PubMed		for							Go Clear		
Search Judition		TOL.	mits	Preview/Ir	idex	His	story	*	Clipboard	Det	ails
About Entrez	7							<u> </u>	▼ Send to	Text	- -
	Dis	splay	Summar	у		Show: 20		Sort		TEXT	'
Text Version			Item	s 1-20 of 19	92			-	Page 1		of 10 Next
Entrez PubMed	П	1: Ols	son EN, W	illiams RS,						Related	Articles, Links
Overview Help FAQ Tutorial New/Noteworthy		Remodeling muscles with calcineurin. Bioessays. 2000 Jun;22(6):510-9. Review. Erratum in: Bioessays 2000 Nov;22(11):1049. PMID: 10842305 [PubMed - indexed for MEDLINE] Chin ER, Olson EN, Richardson JA, Yang Q, Humphries C, Shelton JM, Related Articles, Links Wu H, Zhu W, Bassel-Duby R, Williams RS.									
E-Utilities											
PubMed Services Journals Database MeSH Database Single Citation Matc Batch Citation Matcl	e atcher	A calcineurin-dependent transcriptional pathway controls skeletal muscle fiber type.									
Clinical Queries LinkOut	<u></u>	3: N	aya FJ, Me	rcer B, Shelte	on J,	Richardson	JA, \	Williams	RS, Olson EN.		Articles, Links
Cubby Related Resource Order Documents	ces 📳	S	timulatio	n of slow s . 2000 Feb 18 1477 [PubMe	kele1 3:275	tal muscle (7):4545-8.	e fib	er gene	expression by o		
NLM Gateway TOXNET	Г	14: S	chiaffino S	, Serrano A.							Articles, Links
Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central		T P	Calcineuri rends Phar MID: 1245	n signaling macol Sci. 20 7775 [PubM)02 D ed - i	pec;23(12):3 ndexed for	69-7 MED	S. Review		oer type a	and size.
Privacy Policy	[۸	D Michel	RN Basset-I	JUDY	K, Olson L	1 1 1 1 1 1 1	111141110	Chin ER, Simard RS.		d Articles, Links
		n E	MEF2 res nuscle fit EMBO J. 20 PMID: 1079	ponds to more type. 900 May 2;19 90363 [PubM	ultip 9(9):1 led - i	ole calcium 963-73.	m-re MEI	gulated DLINE]	signals in the c		
	ה	1	₹ichardson	JA. Grant Si	C. OR	SUII LIV.			sey TA, Overbeek		
·			CaM kina transcript	ise signalin ion factor i st. 2000 May 11847 [PubM	g ind n viv	duces care vo. (10):1395-40	06.		ophy and activa	ates the N	MEF2
	□ 7	_ 	Musaro A,	McCullagh k	(J, N:	aya FJ, Olse	on El	V, Rosent	thal N.		d Articles, Links
			IGF-1 ind with GA' Nature. 199 PMID: 104	luces skele FA-2 and N 99 Aug 5;400 148862 [PubN	tal n NF-A (674 Aed -	nyocyte h \Tcl. 4):581-5. indexed fo	yper r ME	trophy DLINE]	through calcine		
	İ		Graham Ri	М.					llen DG, Harvey I		
		Skeletal muscle hypertrophy is mediated by a Ca2+-dependent calcineurin signalling pathway. Nature. 1999 Aug 5;400(6744):576-81. PMID: 10448861 [PubMed - indexed for MEDLINE]								eurin ed Articles, Links	
		□9:	Nishimura	Y, Tanaka T	•					1,0,01	

Calcium-dependent activation of nuclear factor regulated by interleukin 3/adenovirus E4 promoter-binding protein gene expression by calcineurin/nuclear factor of activated T cells and calcium/calmodulin-dependent protein kinase signaling. J Biol Chem. 2001 Jun 8;276(23):19921-8. Epub 2001 Mar 21. PMID: 11262393 [PubMed - indexed for MEDLINE] Related Articles, Links 10: Dunn SE, Burns JL, Michel RN. Calcineurin is required for skeletal muscle hypertrophy. J Biol Chem. 1999 Jul 30;274(31):21908-12. PMID: 10419511 [PubMed - indexed for MEDLINE] 11: Fiedler B, Lohmann SM, Smolenski A, Linnemuller S, Pieske B, Schroder Related Articles, Links F, Molkentin JD, Drexler H, Wollert KC. Inhibition of calcineurin-NFAT hypertrophy signaling by cGMP-dependent protein kinase type I in cardiac myocytes. Proc Natl Acad Sci U S A. 2002 Aug 20;99(17):11363-8. Epub 2002 Aug 12. PMID: 12177418 [PubMed - indexed for MEDLINE] 12: Swoap SJ, Hunter RB, Stevenson EJ, Felton HM, Kansagra NV, Lang JM, Related Articles, Links Esser KA, Kandarian SC. The calcineurin-NFAT pathway and muscle fiber-type gene expression. Am J Physiol Cell Physiol. 2000 Oct;279(4):C915-24. PMID: 11003571 [PubMed - indexed for MEDLINE] 13: van Rooij E, Doevendans PA, de Theije CC, Babiker FA, Molkentin JD, Related Articles, Links de Windt LJ. Requirement of nuclear factor of activated T-cells in calcineurin-mediated ≡ cardiomyocyte hypertrophy. J Biol Chem. 2002 Dec 13;277(50):48617-26. Epub 2002 Sep 10. PMID: 12226086 [PubMed - indexed for MEDLINE] Related Articles, Links 14: Wilkins BJ, Molkentin JD. Calcineurin and cardiac hypertrophy: where have we been? Where are we going? J Physiol. 2002 May 15;541(Pt 1):1-8. Review. PMID: 12015416 [PubMed - indexed for MEDLINE] Related Articles, Links 15: Parsons SA, Wilkins BJ, Bueno OF, Molkentin JD. Altered skeletal muscle phenotypes in calcineurin Aalpha and Abeta genetargeted mice. Mol Cell Biol. 2003 Jun;23(12):4331-43. PMID: 12773574 [PubMed - indexed for MEDLINE] Related Articles, Links ☐ 16: Fu MG. [Role and regulation of calcineurin-dependent signal pathway in cardiac hypertrophy of rats] Sheng Li Ke Xue Jin Zhan. 2001 Jan;32(1):52-4. Chinese. PMID: 12545778 [PubMed - indexed for MEDLINE] 17: Yang J, Rothermel B, Vega RB, Frey N, McKinsey TA, Olson EN, Related Articles, Links Bassel-Duby R, Williams RS.

hypertrophy of rats]
Sheng Li Ke Xue Jin Zhan. 2001 Jan;32(1):52-4. Chinese.
PMID: 12545778 [PubMed - indexed for MEDLINE]

17: Yang J, Rothermel B, Vega RB, Frey N, McKinsey TA, Olson EN,
Bassel-Duby R, Williams RS.

Independent signals control expression of the calcineurin inhibitory proteins
MCIP1 and MCIP2 in striated muscles.
Circ Res. 2000 Dec 8;87(12):E61-8.
PMID: 11110780 [PubMed - indexed for MEDLINE]

18: Vega RB, Rothermel BA, Weinheimer CJ, Kovacs A, Nascem RH,
Bassel-Duby R, Williams RS, Olson EN.

Dual roles of modulatory calcineurin-interacting protein 1 in cardiac hypertrophy.
Proc Natl Acad Sci U S A. 2003 Jan 21;100(2):669-74. Epub 2003 Jan 06.
PMID: 12515860 [PubMed - indexed for MEDLINE]

19: Friday BB, Pavlath GK.



A calcineurin- and NFAT-dependent pathway regulates Myf5 gene expression in skeletal muscle reserve cells.

J Cell Sci. 2001 Jan;114(Pt 2):303-10.

PMID: 11148132 [PubMed - indexed for MEDLINE]

120: Antos CL, McKinsey TA, Frey N, Kutschke W, McAnally J, Shelton JM, Related Articles, Links Richardson JA, Hill JA, Olson EN.



Activated glycogen synthase-3 beta suppresses cardiac hypertrophy in vivo. Proc Natl Acad Sci U S A. 2002 Jan 22;99(2):907-12. Epub 2002 Jan 08. PMID: 11782539 [PubMed - indexed for MEDLINE]

Display Summary	Show: 20 V Sort V	Send to Text	
Items 1-20 of 192	· · · · · · · · · · · · · · · · · · ·	Page 1	of 10 Next

. Write to the Help Desk
NCB! | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer

Jul 17 2003 11:42:11







- IVCE		_	,	•		_	OMIM · Books
PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy Go Clear	OMIM DOOKS
Search PubMed		for					-
•		☑ Limits	Preview/Index	(Histo	ory	Clipboard	Details
About Entrez	75						
<u> </u>		splay Abstract	-	Show: 20	→ Sort	▼ Send to	Text ▼
	1 5,	<u> </u>					
Text Version		. Diagrama 20	200 June 22(6):	-510-9			Related Articles, Links
	ا اسا	1: Bioessays. 20)00 Juli,22(0).	.510-5.			
Entrez PubMed		D 4 in.					
Overview		Erratum in:	2000 NI	22(11).104	0	•	
Help FAQ Tutorial		Bioess	says 2000 Nov	7;22(11):104	٠٦.		
New/Noteworthy		ÎnterS@i	anca.				
E-Utilities		· · · · · · · · · · · · · · · · · · ·			_		
		Remodelir	ng muscles v	vith calcin	eurin.		
PubMed Services							
Journals Database MeSH Database			Williams RS.				
Single Citation Mate Batch Citation Mate		Denartment	of Molecular	Biology, Ur	niversity o	of Texas, Southw	estern Medical
Clinical Queries		Contant of D	allas, Texas. e	olson@ham	on.swme	d.edu	
LinkOut		Cemer at Da	ilias, Toxas. c	015011@114111	0.1.10		
Cubby				. 1 1- :	1	ambia arouth of	cardiac and skeletal
		Ca(2+) sign	aling plays a c	central role	n nyperu	opine growin or	cardiac and skeletal
Related Resource	es	muscle in re	snonse to med	chanical load	d and a va	ariety of signals.	However, me
Order Documents		maahaniem	s wherehy alte	rations in C	a(2+) in t	the cytopiasm act	nvate the
NLM Gateway		hrmartranhi	c recoonse and	d result in lo	ngterm c	hanges in muscle	e gene expression are
TOXNET		nypernopin	Ca(21) calm	andulin dan	andent nr	otein phosphatas	e calcineurin has
Consumer Health		unclear. In	e Ca(2+), cam	nodumi-dep	-11-4-1 e	musala hymartron	by by acting as a Ca
Clinical Alerts		been propos	sed to control	cardiac and	skeletal i	nuscie hypernop	hy by acting as a Ca
ClinicalTrials.gov PubMed Central		(2+) sensor	that couples p	orolonged ch	anges in	Ca(2+) levels to	reprogramming of
Publyled Certifol		muscle gen	e expression (Calcineurin	also cont	rols the contracti	le and metabolic
Privacy Policy	•	properties (of skeletal mus	scle hy activ	ating the	slow muscle fibe	er-specific gene
Privacy Folicy		properties	high is donor	dent on CaC	+) signal	ing. Transcriptio	n factors of the
	-	program, w	men is depend		, , oigila. .dnointe	for the cianaling	nathways whereby
		. NFAT and	MEF2 familie	es serve as e	lupolitis	ioi the signamia	pathways whereby
		calcineurin	controls muse	cle hypertrop	ony and r	iber-type. we co	nsider these findings
		in the conte	wt of a model	for $C_2(2+)$ -	reonlated	l gene expression	in muscle cells allu
		diames not	ential implicat	tions of thes	e finding:	s for pharmacolo	gic modification of
		uiscuss poi	Lakalatal muse	ele function	RioEssa	vs 22:510-519, 2	000. Copyright 2000
	•	cardiac and	skeletai iliust	ole fulletion.	DIOLSSE	ys 22 .010 012, -	
		John Wiley	& Sons, Inc.				
		Publication	Types				
		• Revi					
		• Revi	ew, Tutorial	•			
		PMID: 108	342305 [PubM	led - indexe	d for ME	DLINE]	
			-				
						<u>, , , , , , , , , , , , , , , , , , , </u>	
	_			_,			to Tout
		Display Abstra	ct	Show: 20	_ V Sort	t <u></u> Send t	to Text ▼

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services
Freedom of Information Act | Disclaimer



Language Tools Search Tips **Preferences** Advanced Search mcip calcineurin agonist and musclé Google Search

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web · Images · Groups · Directory · News ·

Searched the web for mcip calcineurin agonist and muscle growth mcip. Results 1 - 10 of about 24. Search took 0.20

[PDF]Dual roles of modulatory calcineurin-interacting protein 1 in ...

File Format: PDF/Adobe Acrobat - View as HTML

... delivery of the -adrenergic agonist, isoproterenol, through ... function, again suggestina

that MCIP proteins contribute to calcineurin activity (16). ...

cardiology.swmed.edu/reynolds/paperOlson.pdf - Similar pages

[PDF]Myocyte-enriched calcineurin-interacting protein, MCIP1, inhibits ...

File Format: PDF/Adobe Acrobat

... of the -ad- renergic receptor agonist isoproterenol by using ... demonstrating that previous

descriptions of calcineurin inhibition by MCIP proteins (16 ...

www.pnas.org/cgi/reprint/98/6/3328.pdf - Similar pages

PNAS -- Rothermel et al. 98 (6): 3328

... period, of the -adrenergic receptor agonist isoproterenol by ... demonstrating that previous

descriptions of calcineurin inhibition by MCIP proteins (16 ...

www.pnas.org/cgi/content/full/98/6/3328 - Similar pages

Myocyte-enriched calcineurin-interacting protein, MCIP1, inhibits ...

... period, of the b-adrenergic receptor agonist isoproterenol by ... demonstrating that

descriptions of calcineurin inhibition by MCIP proteins (16 ...

www.pubmedcentral.nih.gov/ articlerender.fcgi?tool=pubmed&pubmedid=11248078 - Similar pages

Annual Review of Physiology - 65(1):45 - Full Text

... dilated cardiomyopathy in MCIP/calcineurin double-transgenic ... The -adrenergic agonist isoproterenol (56), as ... molecules, including calcineurin, calcium/calmodulin ... physiol.annualreviews.org/cgi/content/full/65/1/45 - Similar pages

United States Patent Application: 0020150953

... a modulator of MCIP dephosphorylation by calcineurin; and (b ... a) providing a modulator of MCIP expression; and ... 59, wherein said modulator is an agonist of muscle ... appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=2&u=/ netahtml/PTO/search-bool.h... - 101k -Cached - Similar pages

J Physiol -- Wilkins and Molkentin 541 (1): 1

... Second, while MCIP-1 transgenic mice survive successfully through neonatal ... Targeted inhibition of calcineurin prevents agonist-induced cardiomyocyte ... www.jphysiol.org/cgi/content/full/541/1/1 - Similar pages

Interactive Fly, Drosophila

... these data, the beta-adrenergic agonist isoproterenol (ISO ... an important role for calcineurin signaling in ... expression or activity of MCIP proteins selectively ... sdb.bio.purdue.edu/fly/dbzhnsky/calcnin2.htm - 60k - Cached - Similar pages

[PDF]HFSA Newsletter Volume 3, Number 4, December 2001 - January 2002

File Format: PDF/Adobe Acrobat

... to humans?" New insights into the model have been provided by muscle- selective calcineurin interacting proteins (MCIP), which act as ... www.hfsa.org/pdf/hfsa_news8.pdf - Similar pages

Rodent Models for HIV-1 Infection and Disease

Sponsored Links

Buy Legal Muscle Builders

Steroids Build Muscle Fast. Legal-D-Bol, Winni-V, Anodrol, Deca, Test www.legalsteroids.com

Interest:

Muscle Without Steroids

Step by step method to pack on new muscle every workout. www.PrecisionTraining.com

Interest:

Build Muscle Fast

How you can build freaky big cartoon like muscles fast.

weight-lifting-supplements.com

Interest:

Extreme Bench Press

Not For Beginners, Prevent Plateaus And Increase Max Weight, aff. www.benchpress.ontheweb.com

See your message here...

1 in transgenic mice expressing activated calcineurin in the ... 2 activation and prevents agonist-induced hypertrophy ... inflammatory protein-1 (MCIP-1) production ... www.bentham.org/cvp1-1/xu/xu.htm - 101k - Cached - Similar pages

Google >

Result Page:

mcip calcineurin agonist and musclé



Dissatisfied with your search results? Help us improve.

Get the Google Toolbar: |

Google -

Search Web Search Site

₩News

PageRank 🔊 Highlight

Google Home - Advertise with Us - Business Solutions - Services & Tools - Jobs, Press, & Help

©2003 Google



Language Tools Advanced Search Google Search mcip calcineurin agonist and muscle

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web · Images · Groups · Directory · News · Searched the web for mcip calcineurin agonist and muscle growth mcip. Results 11 - 12 of about 24. Search took 0.2

[PDF] The Good, the Bad, and the Ugly

File Format: PDF/Adobe Acrobat - View as HTML

... to dilated cardiomyopathy in MCIP/calcineurin double-transgenic ... The eta-

agonist isoproterenol (56 ... molecules, including calcineurin, calcium/ calmodulin ... physiol.annualreviews.org/cgi/reprint/65/1/45 - Similar pages

[PDF] 1 P8 Lack of Apaf-1 Expression Confers Resistance to Cytochrome

File Format: PDF/Adobe Acrobat - View as HTML

... the retardation of hypertrophy in Calcineurin transgenics without ... the progression of hypertrophic growth and that ... the control of heart muscle hypertrophy and ... www.americanheart.org/downloadable/ heart/1059425543556P8-P77.pdf - Aug 5, 2003 - Similar pages

In order to show you the most relevant results, we have omitted some entries very similar to the 12 already displayed. If you like, you can repeat the search with the omitted results included. Sponsored Links

Buy Legal Muscle Builders Steroids Build Muscle Fast, Legal-D-Bol, Winni-V, Anodrol, Deca, Test www.legalsteroids.com Interest:

Build Muscle Naturally Step by step method to pack on new muscle every workout.

www.PrecisionTraining.com Interest:

Rapamycin (Sirolimus) >99% purity - 1mg \$38 - 5mg \$85 See competitors' purity/prices here Lclabs.com Interest:

Build Muscle Fast

How you can build freaky big cartoon like muscles. weight-lifting-supplements.com Interest:

Extreme Bench Press

Not For Beginners, Prevent Plateaus And Increase Max Weight, aff. www.benchpress.ontheweb.com Interest:

See your message here...

◆ Google

Result Page: Previous 1 2

mcip calcineurin agonist and musclé

Google Search

Search within results

Google Home - Advertise with Us - Business Solutions - Services & Tools - Jobs, Press, & Help

©2003 Google